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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/527,900	03/14/2005	Yuji Soda	Komatsu Case 309	9075	
23474 7.	590 04/19/2006		EXAMINER		
FLYNN THIEL BOUTELL & TANIS, P.C.			MAI, NGOCLAN THI		
2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631			ART UNIT	PAPER NUMBER	
	,		1742		
			DATE MAILED: 04/19/2006	DATE MAILED: 04/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/527,900	SODA ET AL.	
	Office Action Summary	Examiner	Art Unit	_
	·	Ngoclan T. Mai	1742	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
·	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-6</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) <u>1,2,4 and 5</u> is/are rejected.  Claim(s) <u>3 and 6</u> is/are objected to.  Claim(s) are subject to restriction and/or			
Applicati	on Papers			
9) 10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
Priority L	ınder 35 U.S.C. § 119			
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 3/14/05.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:		

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-2, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsujii et al. (U.S. Patent No. 4,917,961).

Tsujii discloses an atomized powder of high-carbon high-chromium steel containing in % by weight, 0-0.8 of C, 0.05 to 1.00 of Si, 0.05 to 1.00 of Mn, 15-25 of Cr optionally 0.05 to 4.0 of at least one selected from Mo, V, Nb, W and Co the balance Fe. Although Tsuji does not exemplify an embodiment containing the claimed amount of Nb, it teaches that between 0.05 to 4.0 Nb may be contained in the atomized powder (Claim 1.) It would have been obvious to one of ordinary skill in the art at the time of the invention was made to select Nb having present in the powder in the amount of from 2.0 to 4.0% of Nb since it is specifically recited as being a suitable material to be present in the powder. Since the reference teaches an alloyed steel powder with constituents whose wt% ranges overlap those recited by the claims; such overlapping range renders applicant's composition prima facie obvious despite difference in non-overlapping areas, see In re Malagari, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974). Claims 2 and 5 are also obvious over Tsujii because the claimed limitation 5.0% or less of at least one of Mo, V and W reads on "zero" percent.

3. Claims 3 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally

be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy

King can be reached on (571) 272-1244. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Ngoslan T. Mai Primary Examiner Art Unit 1742

n.m.